



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

OCT 17 2001

DOT-E 11286  
(THIRD REVISION)

EXPIRATION DATE: August 31, 2003
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(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: International Sensor Technology  
Irvine, California
2. PURPOSE AND LIMITATION:
  - a. This exemption authorizes the transportation in commerce of small quantities of hazardous materials which are not authorized under § 173.4, when packaged according to the limitations and special requirements specified herein. This exemption provides no relief from any hazardous material regulation (HMR) other than as specifically stated herein.
  - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.203 and § 173.4(a) in that Divisions 2.1, 2.3, 6.1, and Classes 3 and 8 materials are not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of International Sensor Technology dated September 5, 2001, submitted in accordance with § 107.109.

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
See Appendix A			

7. SAFETY CONTROL MEASURES:

a. PACKAGING - The inner packaging is a hermetically sealed glass serum bottle containing not more than 20 ml of a pure non-liquefied gas or 10 ml of a liquid. The internal pressure of the bottle must not exceed 170 kPa (24.6 psia), at 20 degrees Celsius. The inner package must also remain hermetically sealed at 55 degrees Celsius. The sealed serum bottle must be wrapped in cushioning material and placed inside a piece of SCH 40 polyvinyl chloride (PVC) pipe. Each end of the pipe must be filled with an absorbent/cushioning material sufficient to absorb the entire contents of the bottle and to prevent movement inside the PVC pipe during transportation. The threaded pipe must be hermetically sealed with the threaded caps and only one bottle is allowed per pipe. The pipe must then be placed within a heat-sealed plastic bag.

A maximum of 6 pipes, with cushioning, can be placed in one outside box.

b. TESTING - The completed package must meet the testing requirements of § 173.4.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.


b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

OCT 17 2001

- c. MARKING - The package must be marked "This package conforms to conditions and limitations specified in § 173.4 and DOT-E 11286".
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel and cargo aircraft only.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Registration required by § 107.601 et seq., when applicable.
- Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.
- No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.
12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:

OCT 17 2001

  
Robert A. McGuire  
Associate Administrator for  
Hazardous Materials Safety

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590. Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, SW, Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: AM

OCT 17 2001

Continuation of DOT-E 11286 (3rd Rev.) APPENDIX A

Page 5

Hazardous Materials	Hazard Class	ID number	Pkg. Group
Ammonia, anhydrous, liquefied or Ammonia solutions <i>relative density less than 0.880 at 15 degrees C in water, with more than 50 percent ammonia</i>	2.3	UN1005	n/a
Boron trichloride	2.3	UN1741	n/a
Boron trifluoride	2.3	UN1008	n/a
Carbon disulfide	3	UN1131	I*
Chlorine	2.3	UN1017	n/a
Cyanogen chloride, inhibited	2.3	UN1589	n/a
Dichlorosilane	2.3	UN2189	n/a
Dinitrogen tetroxide, liquefied	2.3	UN1067	n/a
Ethylene oxide or Ethylene oxide with nitrogen up to a total pressure of 1MPa (10 bar) at 50 degrees C	2.3	UN1040	n/a
Hydrogen bromide, anhydrous	2.3	UN1048	n/a
Hydrogen chloride, anhydrous	2.3	UN1050	n/a
Hydrogen cyanide, stabilized with less than 3 percent water	6.1	UN1051	I*
Hydrogen fluoride, anhydrous	8	UN1052	I*
Hydrogen sulfide, liquefied	2.3	UN1053	n/a
Methyl bromide	2.3	UN1062	n/a
Methyl mercaptan	2.3	UN1064	n/a
Nitric acid other than red fuming, with not more than 70 percent nitric acid	8	UN2031	n/a
Nitric oxide	2.3	UN1660	n/a
Nitrogen trifluoride	2.2	UN2451	n/a

OCT 17 2001

Continuation of DOT-E 11286 (3rd Rev.) APPENDIX A

Page 6

Hazardous Materials	Hazard Class	ID number	Pkg. Group
Nitrogen trifluoride	2.2, 2.3	UN2451	n/a
Sulfur dioxide, liquefied	2.3	UN1079	n/a

\* Shipped in gaseous form only.